

Threat Air Defense at the

95 96 97 98 99 00 01 02 03 ... Crossroad Spplying Lessons Learned... **Adoptive and Adaptive**

Current ADA Strategies Defensive in nature

Protect homeland

Somali

Desert

Storm

Concentrated on fixed sites

Compiling Lessons Learned

Weather creates sanctuaries

- Lasers / EO can't target what they can't see

Use decoys

- Set the conditions for ambushes

Find Counters for GPS

Destroy flagship systems

 Information War as important as fighting

inaccurate targeting

- Civilians on battlefield
•Air War first line of engagement

Know and understand US tactics

Current ADA Capabilities

Standardized Layout and Doctrine

Centralized Control and Engagement

Generally older systems -- but several (<10) highly sophisticated

Allied

Force

Chechnya

Niche proliferation

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> Continued improvements in sophisticated AD systems Will present significant survivability and operational challenges to U.S. Army Aviation

Emerging ADA Strategies nature

Redundant C31

Two tiered approach- regional and US/West

•Dispersion is a combat multiplicispersed, Integrated, distributed and decentralized engage

Mixed automated and manual tracking-- win war of weath

Maximum use of urban and complex terrain

Air Defense not tied to facilities...Air Defense Ambush

TBM/Cruise to deny APOD's/SPOD's

Pattern analysis

Less dependence on fast movers





Emerging ADA Capabilities Multispectral sensor integration

NOE/OTH Radar capability

Integration of gun and missile batteries

Longer range radar Advanced munitions Enhanced targeting

Helicopter (air to air)

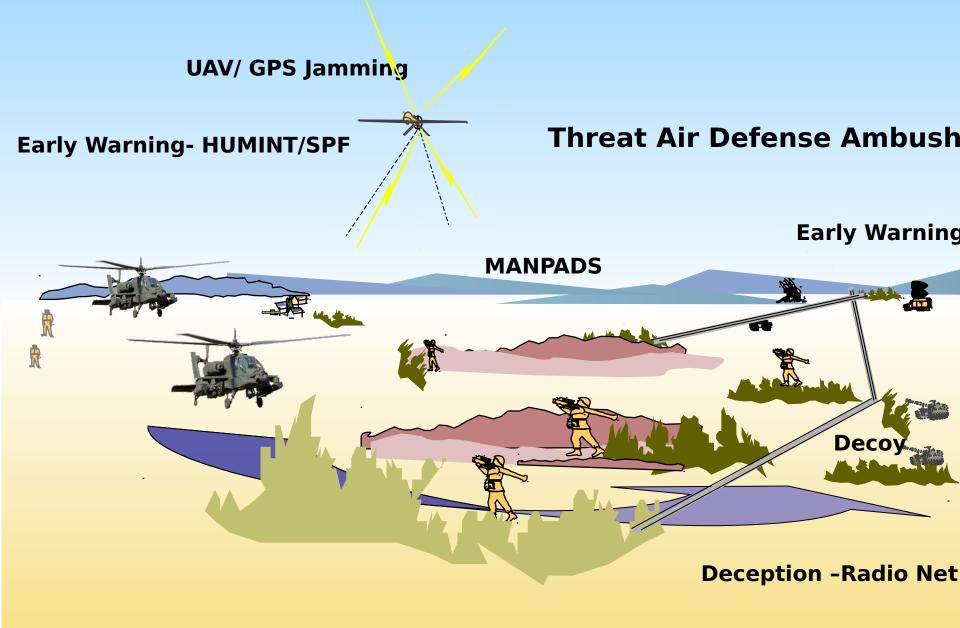
Threat Air Defense at the Crossroa



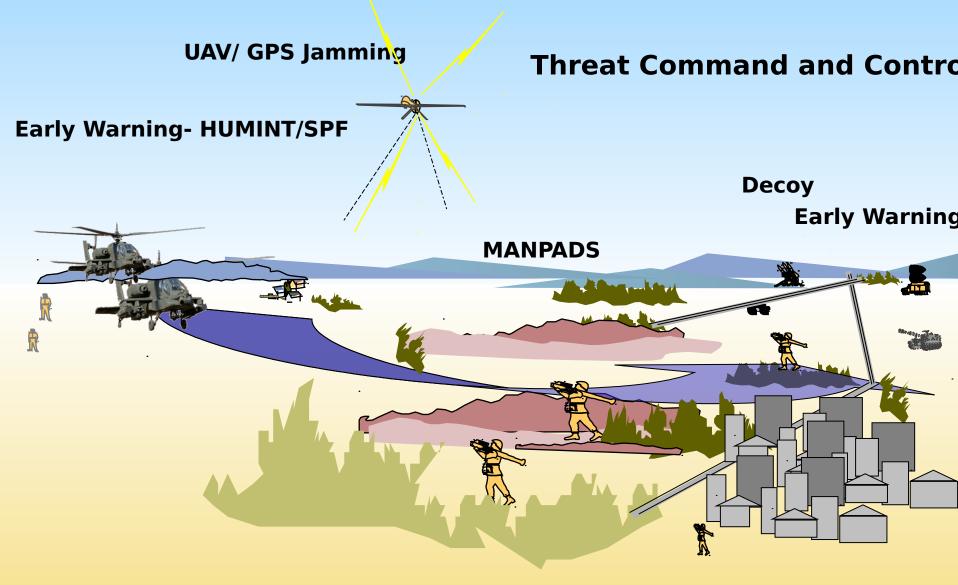
Cell/GPS Comms



Armed Reconnaissance Role

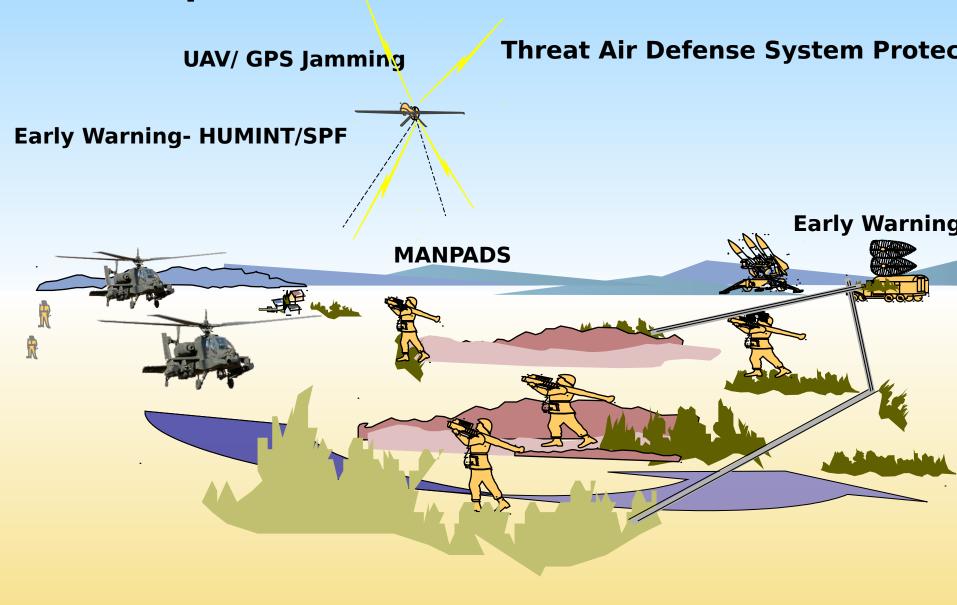


Information Superiority Role

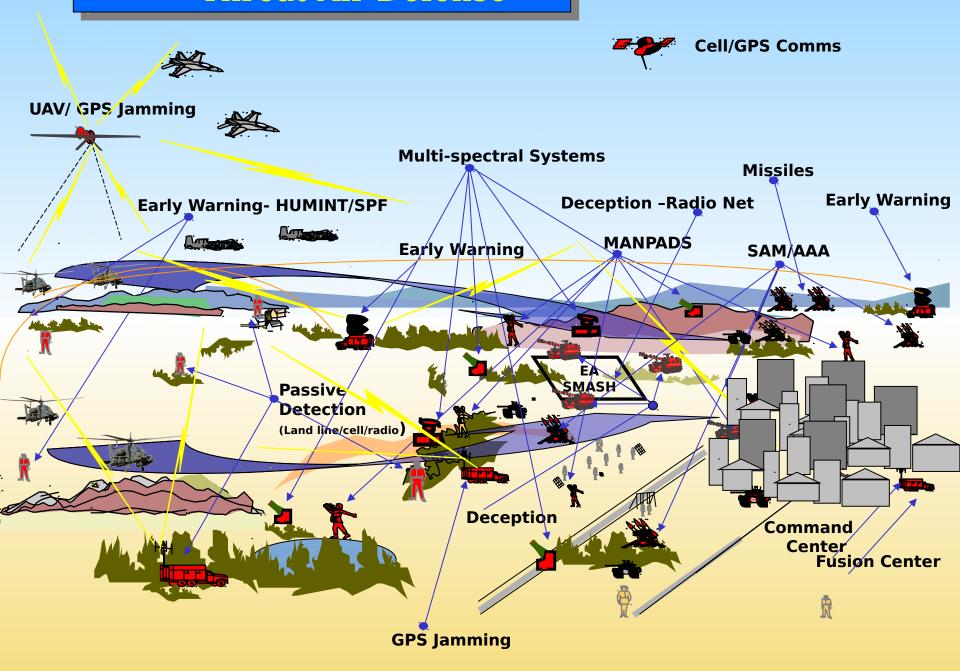


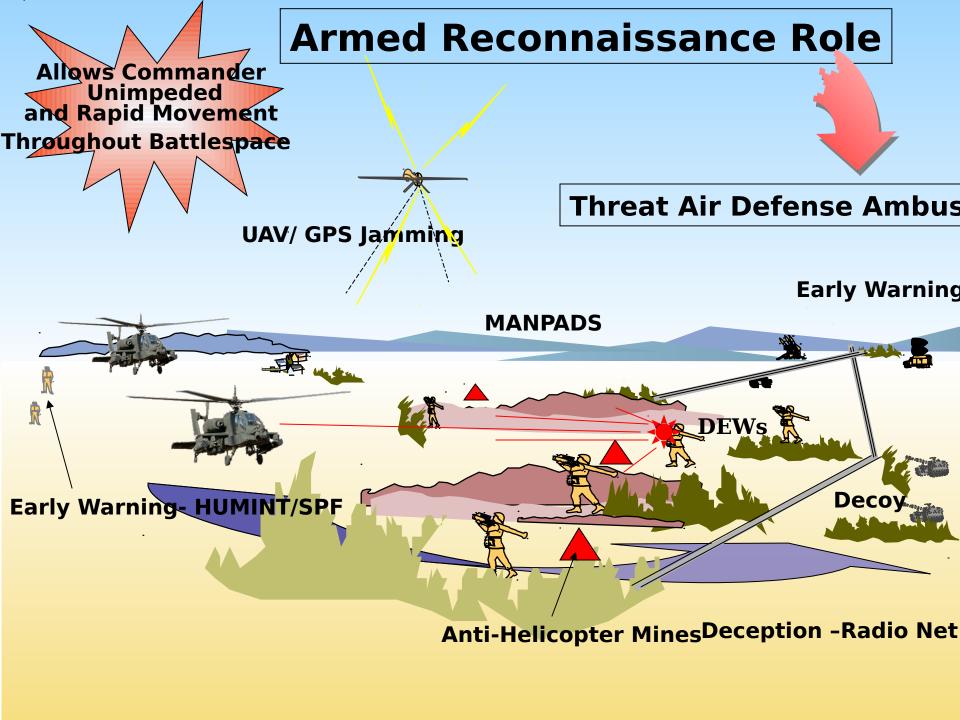
Deception - Radio Net

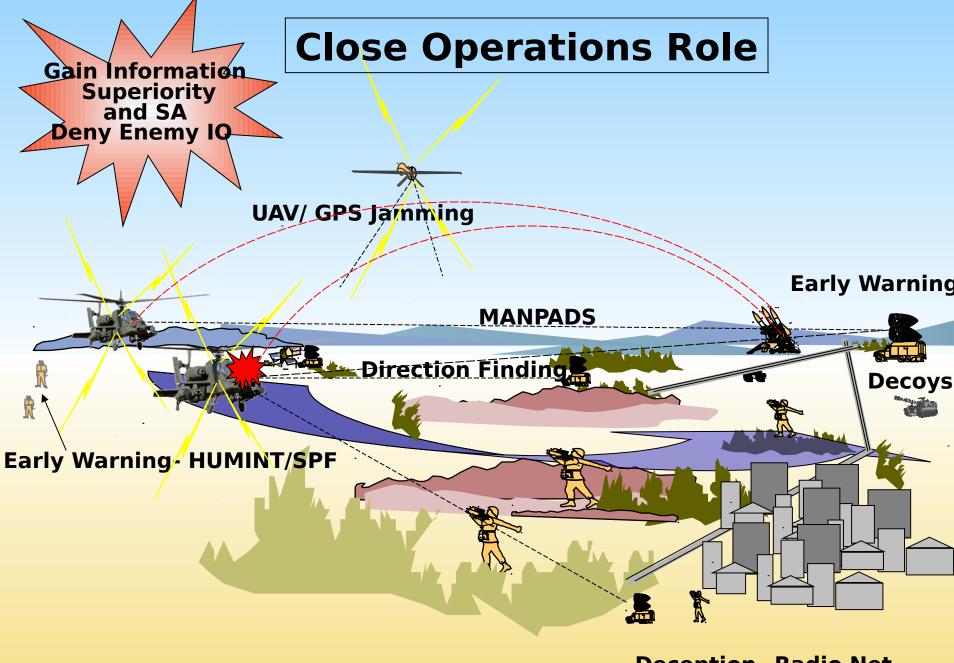
Deep Attack Role



Threat Air Defense







Deception -Radio Net

